



SEQUENCE LISTING

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Sun, Wei

<120> T Cell Receptor CDR3 Sequence and Methods for
Detecting and Treating Rheumatoid Arthritis

<130> D6622

<140> US 10/612,468
<141> 2003-07-02

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in the V(16 family (BV16 gene) of T cell receptors
(TCR) in patients with rheumatoid arthritis (RA)

<400> 1
agccaagctg acgggaccca t 21

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patients with RA

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 TCR beta-chain BV16 in patients with RA

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region V(14 of T cell receptors

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Ala Gly Pro Leu Glu Ala Gln Val Thr Gln Asn Pro Arg Tyr Leu
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Ile Thr Val Thr Gly Lys Lys Leu Thr Val Thr Cys Ser Gln Asn
              35              40              45
Met Asn His Glu Tyr Met Ser Trp Tyr Arg Gln Asp Pro Gly Leu
              50              55              60
Gly Leu Arg Gln Ile Tyr Tyr Ser Met Asn Val Glu Val Thr Asp
              65              70              75
Lys Gly Asp Val Pro Glu Gly Tyr Lys Val Ser Arg Lys Glu Lys
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Arg Asn Phe Pro Leu Ile Leu Glu Ser Pro Ser Pro Asn Gln Thr
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Ser Leu Tyr Phe Cys Ala Ser Ser
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Asp Asn Leu Tyr Trp Tyr Arg Arg Val Met Gly Lys Glu Ile Lys
              35              40              45
Phe Leu Leu His Phe Val Lys Glu Ser Lys Gln Asp Glu Ser Gly
              50              55              60
Met Pro Asn Asn Arg Phe Leu Ala Glu Arg Thr Gly Gly Thr Tyr
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Ser Thr Leu Lys Val Gln Pro Ala Glu Leu Glu Asp Ser Gly Val
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Tyr Phe Cys Ala Ser Ser
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<210> 25
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<210> 26
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 <210> 78
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 from ST specimen of RA patients

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 cgggccagga 60

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 Phe Phe Gly Pro Gly
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 from ST specimen of RA patients

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 cgggccagga 60

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 from ST specimen of RA patient

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 Phe Phe Gly Pro Gly
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 <210> 83
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 from ST specimen of RA patient

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 cgggccagga 60

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from ST specimen of RA patient

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from ST specimen of RA patients

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from ST specimen of RA patient

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20

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cgggccgggc 60

<210> 89
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from ST specimen of RA patient

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Phe Phe Gly Pro Gly
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from ST specimen of RA patients

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cgggccgggc 60

<210> 91
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<213> Homo sapiens

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<221> Domain
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from ST specimen of RA patient

<400> 91
 Tyr Phe Cys Ala Ser Ser Gln Asp Lys Gly His Phe Tyr Glu Gln
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 Phe Phe Gly Pro Gly
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<210> 92
 <211> 60
 <212> DNA
 <213> Artificial Sequence

<220>
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 from ST specimen of RA patients

<400> 92
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 cgggccgggc 60

<210> 93
 <211> 20
 <212> PRT
 <213> Homo sapiens

<220>
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 from ST specimen of RA patient

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 Tyr Phe Cys Ala Ser Ser Gln Ala Asp Gly Thr His Tyr Glu Gln
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 Phe Phe Gly Pro Gly
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<210> 94
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cgggccgggc 60

<210> 95
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from ST specimen of RA patient

<400> 95
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Phe Phe Gly Pro Gly
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<210> 96
<211> 60
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from ST specimen of RA patients

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cgggccgggc 60

<210> 97
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from ST specimen of RA patient

<400> 97
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Phe Phe Gly Pro Gly
20

<210> 98
<211> 60
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from ST specimen of RA patients

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cgggccgggc 60

<210> 99
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<400> 99
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<210> 100
<211> 54
<212> DNA
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<210> 101
<211> 18

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<220>
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            from ST specimen of RA patients

<400>      117
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            5                      10                      15
Phe Phe Gly Pro Gly
            20

<210>      118
<211>      63
<212>      DNA
<213>      Artificial Sequence

<220>
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<223>      CDR3 nucleic acid sequence of BV14 clonotype derived
            from ST specimen of RA patients

<400>      118
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cttcgggccca gga                                           63

<210>      119
<211>      21
<212>      PRT
<213>      Homo sapiens

<220>
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<223>      CDR3 amino acid sequence of BV14 clonotype derived
            from ST specimen of RA patients

<400>      119
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            5                      10                      15
Gln Phe Phe Gly Pro Gly
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<210>      120
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<220>
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 cgggccagga
 60

 <210> 121
 <211> 20
 <212> PRT
 <213> Homo sapiens

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 <223> CDR3 amino acid sequence of BV14 clonotype derived
 from ST specimen of RA patients

 <400> 121
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 5 10 15
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 <210> 122
 <211> 63
 <212> DNA
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 from ST specimen of RA patients

 <400> 122
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 <211> 21
 <212> PRT
 <213> Homo sapiens

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<220>
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<223>      CDR3 amino acid sequence of BV14 clonotype derived
           from ST specimen of RA patients

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           5                               10                               15
Gln Phe Phe Gly Pro Gly
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<210>      124
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<213>      Artificial Sequence

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           from ST specimen of RA patients

<400>      124
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cgggccagga.                                           60

<210>      125
<211>      19
<212>      PRT
<213>      Homo sapiens

<220>
<221>      Domain
<223>      CDR3 amino acid sequence of BV14 clonotype derived
           from ST specimen of RA patients

<400>      125
Tyr Phe Cys Ala Ser Ser Leu Arg Thr Arg Phe Tyr Glu Gln Tyr
           5                               10                               15
Phe Gly Pro Gly

<210>      126
<211>      57
<212>      DNA
<213>      Artificial Sequence

<220>
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<223> CDR3 nucleic acid sequence of BV14 clonotype derived
from ST specimen of RA patients

<400> 126
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<210> 127
<211> 20
<212> PRT
<213> Homo sapiens

<220>
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from ST specimen of RA patients

<400> 127
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Tyr Phe Gly Pro Gly
20

<210> 128
<211> 60
<212> DNA
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from ST specimen of RA patients

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cgggccagga 60

<210> 129
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from ST specimen of RA patients

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<400>      129
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Tyr Phe Gly Pro Gly
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              from ST specimen of RA patients

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cgggccagga                                           60

<210>      131
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              from ST specimen of RA patients

<400>      131
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Tyr Phe Gly Pro Gly
                    20

<210>      132
<211>      60
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<223>      CDR3 nucleic acid sequence of BV14 clonotype derived
              from ST specimen of RA patients

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<400> 132
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<210> 133
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Tyr Phe Gly Pro Gly
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<210> 134
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from ST specimen of RA patients

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Tyr Phe Gly Pro Gly
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<210> 136
<211> 60
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<213> Artificial Sequence

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from ST specimen of RA patients

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<210> 137
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<212> PRT
<213> Homo sapiens

<220>
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from ST specimen of RA patients

<400> 137
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Phe Gly Pro Gly

<210> 138
<211> 57
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from ST specimen of RA patients

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<210> 139

<211> 19
 <212> PRT
 <213> Homo sapiens

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 from ST specimen of RA patients

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 Phe Gly Pro Gly

 <210> 140
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 <210> 141
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 from ST specimen of RA patients

 <400> 141
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 Tyr Phe Gly Pro Gly
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 from ST specimen of RA patients

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 cgggccagga 60

<210> 143
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 <212> PRT
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 from ST specimen of RA patients

<400> 143
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 Tyr Phe Gly Pro Gly
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<210> 144
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 <212> DNA
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 from ST specimen of RA patients

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<210> 145
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 <213> Homo sapiens

<220>
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<223> CDR3 amino acid sequence of BV14 clonotype derived
from ST specimen of RA patients

<400> 145
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5 10 15
Tyr Phe Gly Pro Gly
20

<210> 146
<211> 60
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cgggccagga 60

<210> 147
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from ST specimen of RA patients

<400> 147
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5 10 15
Tyr Phe Gly Pro Gly
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<210> 148
<211> 61
<212> DNA
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<220>
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<223> CDR3 nucleic acid sequence of BV14 clonotype derived from ST specimen of RA patients

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tcgggccggg c 61

<210> 149
<211> 20
<212> PRT
<213> Homo sapiens

<220>
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<223> CDR3 amino acid sequence of BV14 clonotype derived from ST specimen of RA patients

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5 10 15
Tyr Phe Gly Pro Gly
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<210> 150
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
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cgggccagga 60

<210> 151
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<220>
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 5 10 15
 Gly Gln Gly

<210> 162
 <211> 53
 <212> DNA
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<220>
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 from ST specimen of RA patients

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<210> 163
 <211> 18
 <212> PRT
 <213> Homo sapiens

<220>
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 <223> CDR3 amino acid sequence of BV14 clonotype derived
 from ST specimen of RA patients

<400> 163
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 5 10 15
 Gly Gln Gly

<210> 164
 <211> 54
 <212> DNA
 <213> Artificial Sequence

<220>
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 from ST specimen of RA patients

<400> 164
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<210> 165
 <211> 18

<221> CDS
<223> CDR3 nucleic acid sequence of BV14 clonotype derived
from ST specimen of RA patients

<400> 168
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